

## DUAL BAND FET MIXER

### Abstract

5 A dual band mixer has a common node for at least one radio frequency input and  
an intermediate frequency output. The dual band mixer also has a first transistor with a  
gate coupled to a first local oscillator input and a drain coupled to the common node, and  
a second transistor with a gate coupled to a second local oscillator input and a drain  
coupled to the common node. Interconnection circuitry turns off the second transistor  
when the first local oscillator input signal is applied to the first transistor, and turns off  
10 the first transistor when the second local oscillator input signal is applied to the second  
transistor.